MIKE H. LIU

714 W. Elm St. Unit 2, Urbana, IL 61801 • (626)-512-6236 • mikeliu8492@gmail.com
LinkedIn: https://www.linkedin.com/in/mikeliu8492 • **GitHub**: https://www.github.com/mikeliu8492
Personal Website: https://mikeliu8492.herokuapp.com

EDUCATION

University of Illinois Urbana-Champaign – Champaign, IL August 2015 – May 2018
B.S. Computer Science GPA: 3.76/4.00

Medical College of Wisconsin – Milwaukee, WI August 2010 – March 2013
M.D. Medicine (Withdrew)

Johns Hopkins University – Baltimore, MD August 2004 – May 2009
M.S. Cellular and Molecular Biology, B.A. Biology GPA: 3.73/4.00

WORK EXPERIENCE

Microsoft – Redmond, WA May 2017 – August 2017
Software Development Engineer Intern – Windows Servicing and Delivery Group

- Developed in C# proof-of-concept web service to efficiently retrieve and process Microsoft Graph API user/device active directory data for proper API ingestion into Operations Management Suite (OMS) Platform logs streams to identify specific device organization roles with their data snapshots to enrich reporting for IT Administrators in Window 10 update deployment planning.
- Re-engineered Update Compliance TypeScript solution query generation and data parsing functions to accommodate new query capabilities of OMS Platform Kusto Query Language. Facilitated anticipated completion of migration well before release deadline.

Intelligent Medical Objects – Champaign, IL May 2016 – May 2017
SQL Developer/Mapping Analyst Intern – Clinical Terminology Mapping Team

- Created 60+ ad-hoc Oracle SQL reports to help team organize over 9,000 proprietary concepts by quality assurance issues in IMO clinical content to ensure compliance with best HIM professional editorial guidelines and aid clinicians' documentation experience.
- Designed pilot user interface, corresponding queries, and backend table update stored procedure on Confluence Wiki that enables customizable data filtering in Oracle SQL for 11+ team productivity metrics reports to improve team efficiency.

SKILLS

- Proficient: C#, SQL, C++, C, Java, Confluence, Python, SVN
- Basic Knowledge: HTML, CSS, JavaScript, Bootstrap, TypeScript, Node, React, Git, TFS

RELEVANT COURSEWORK

- Algorithms and Models of Computation
- Database Systems
- Data Structures
- System Programming
- The Art of Web Programming
- Artificial Intelligence
- Bioinformatics
- Text Information Systems

PROJECTS AND ACTIVITIES

MikeLiu.herokuapp.com August 2017 – Present

- Personal website coded in Node, Express, and React. Exhibits professional and personal interests.

NYCMortality.herokuapp.com August 2017 – Present

- Website coded in Node, Express, React, and Bootstrap to visualize leading causes of mortality data in New York Metropolitan area by race/gender as obtained by data.gov API dataset from the New York Department of Health and Mental Hygiene.

Abstract Language Integrated Query (ALIQ) – Microsoft OneWeek Hackathon Project July 2017 – Present

- Contributor to open-source .NET DLL for database query logic agnostic of backend to be written in standard C# syntax.
- Implemented library file handler functionality to read/write table data into null-separated variable files for persistent storage.
- Developed unit tests for business logic demonstration using both C# native variables and converted web API JSON data.

Minesweeper 2.0 November 2016

- Personally coded a game in Java utilizing Javax.Swing library to explore and further build on classic Windows game.
- Implemented new custom functionalities like scoring algorithm that evaluates on game difficulty and time to completion.

Intelligent Medical Objects Peer Mentor May 2016 – October 2016

- Mentored co-worker on her medical school application essays to best advance her candidacy.
- Conducted mock interviews and provided feedback on presentation to promote co-worker's interest in STEM, and our collaboration resulted in my co-worker attaining admission to a medical school of her choice.

HONORS AND AWARDS

- 2017 Microsoft Tuition Merit Scholarship
- Tau Beta Pi Engineering Honor Society